

App. No. 10/656,024
Amtd. Dated August 10, 2005
Reply to Office Action of June 6, 2005
Atty. Dkt. No. 7719-115

Amendments to the Specification

Please amend paragraphs [0038]-[0038], [0040], [0042], and [0044] as shown below:

[0035] The system 10 further includes thermocouples thermal couples, such as thermocouple thermal couple 105. The thermocouples thermal couples may be strategically located, for example, within each bay of a rack system. In further embodiments, a thermocouple thermal couple is provided near or within each component such as a blade. Accordingly, the number of thermocouples thermal couples included in the system 10 may be varied as needed.

[0036] The thermocouple thermal couple 105 is adapted to detect a temperature of, for example, an environment around or within a component. In this regard, the thermocouples thermal couples may detect the operating temperature of the computer, computer component or computer system and transmit the value to an external recipient. Such thermocouples thermal couples are well known to those skilled in the art.

[0037] The blades, such as slave blade 32, and the thermocouples thermal couples, such as thermocouple thermal couple 105, are adapted to communicate with a reset control module 107 forming a part of the control bay 21 through cables, such as cables 101a and 105a. In a preferred embodiment, each cable linking the reset control module 107 to a blade or a thermocouple thermal couple is a two-wire cable.

[0038] The reset control module 107 is adapted to receive data from each thermocouple thermal couple, such as thermocouple thermal couple 105. Further, the reset control module 107 is adapted to receive and send signals from and to the various blades, including slave blade 32 and master blade 105. In this regard, the reset control module 107 may receive computer unit performance signals including performance

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data for each blade. For example, the data may include indications of a malfunction and requesting attention.

[0040] In operation, the reset control module 107 receives signals from the thermocouples thermal couples, such as thermocouple thermal couple 105, through the cables, such as cable 105a. The signals may include data relating to the operating temperature of the computer, computer component or computer system, such as a blade. The data is transmitted to the reset control module 107 from each thermocouple thermal couple. The reset control module 107 may receive the data at a pre-determined frequency, such as one hertz, thereby providing regular updates to the reset control module 107.

[0042] The temperature and other operating information may be monitored through the networks 114 or 118 by the user at the computers 112 or 116. If a malfunction is detected at one of the blades, for example, a signal may be transmitted from one of the computers such as the computers 112 and 116 to the reset control module 107 to shut down or reset the particular computer, component or system. For example, a malfunction may be detected as a temperature above a pre-determined threshold at one of the thermocouples thermal couples. The high temperature may indicate that, for example, a ventilation fan has failed, thereby threatening to destroy or damage one or more components. In this scenario, either one blade or an entire bay of blades may be shut down or reset.

[0044] In a further embodiment, the reset control module 107 may be provided with a pre-set threshold for resetting various components. For example, the reset control module 107 may be provided with a maximum temperature detected by the thermocouples thermal couples. If the thermocouples thermal couples indicate a temperature above that threshold, the reset control module 107 may initiate the reset process automatically without involving the remote computers 112 and 116. In this regard, the threshold may be modified remotely by the user using the computer 112,

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116. A signal may be transmitted from one of the computers 112 and 116 to the reset control module 107 through a network such as the networks 114 and 118 providing a new threshold.